

laser cnc cutting

Attributes

Laser cut



Laser cutting is a thermal cutting process for metal sheet processing. The laser beam is made by a laser resonator, made by a transport fiber or mirror at the cutting head of the device, where a lens focuses it with a very high power at a very small diameter. This focused laser beam consists of sheet metal and melts it.

Advantages of Radox for CNC laser cutting customers:

- Presenting CNC laser cutting by the most advanced and accurate American and German devices.
- In the shortest time
- At the lowest price
- Special discounts for regular customers
- The largest CNC cutting service pole in Iran
- It has a central site with an area of more than 60,000 square meters
- Complex of halls over 12,000 square meters

Laser CNC cutting capability:

Ability to cut all kinds of iron, steel, aluminum and copper sheets from 0.2 mm to 20 mm thick with an accuracy of 0.1 mm.

Important points for CNC laser cutting:

Steel

Conical angle: means the change in the diameter of the hole in the thickness of the cut.

Fins production: Definitely, the lower the plexus produced after cutting, the better the final quality and the less the need for a secondary machining process.

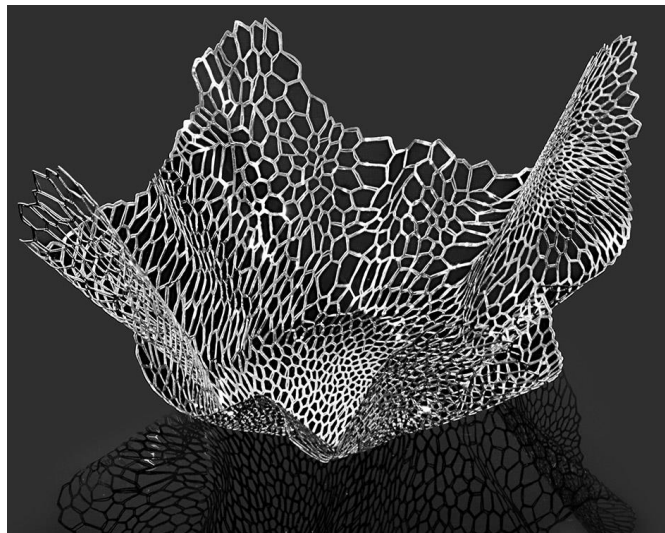
Kerf: In fact, Kerf defines the smallest radius that can be cut, which depends on the thickness of the sheet and should be considered in the design.

For example, very sharp corners should have a minimum r equivalent to a ridge. Also, the minimum holes that can be made in metal sheets depend on the thickness of the sheet.

Obviously, the smaller the device, the more complex the contours and the smaller the thicker ribs.

Cutting speed: Much depends on the capabilities of the device and the power of the laser beam. The higher the power of the device, the higher the cutting speed will be.

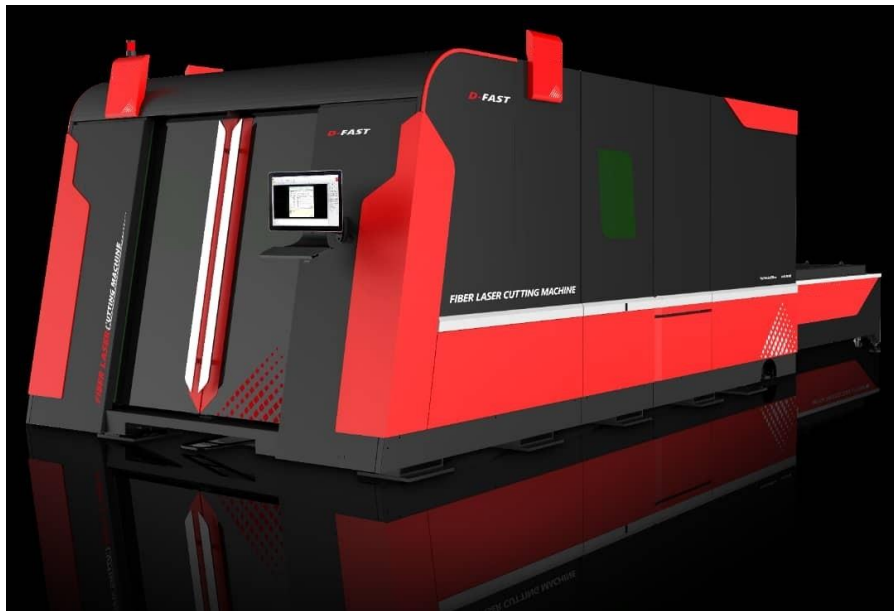
Surface smoothing: One of the most important parameters in surface smoothing and non-oxidation cutting is that it is created by combining different technologies and correct and precise adjustment of control parameters such as gas type, gas pressure, cutting speed and laser power adjustment.



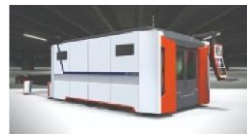
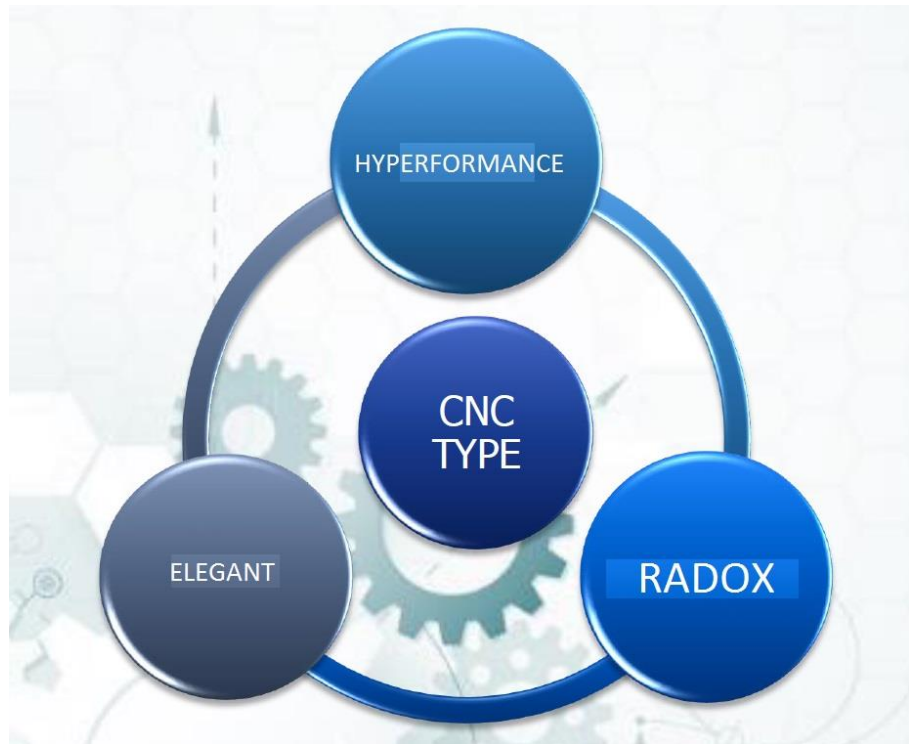
Descriptions



FIBER LASER CNC CUTTING MACHINE



500~12000 W



HYPERFORMANCE

RDX

ELEGANT

RADOX CNC fiber laser cutting machines are equipped with the most advanced and powerful international laser sources, and this combination creates very precision on a variety of metal materials. The very high high quality cuts and unparalleled technology used in RADOX laser fiber CNC cutting machines reduces the current cutting costs and .the most competitive laser cutting method can be provided

The technology used in RADOX laser fiber makes it possible to cut all kinds of non-ferrous(colored) metals, while with the old technology, CO2 lasers were not possible. Laser sources can be supplied in all capacities from low capacities to 12000W and can be installed on .all types of CNCs

Technical specification

ITEM	TECHNICAL SPECIFICATION	PACK 1		MAX-FIBER/RAYCUS	PACK 3	
		HYPERFORMANCE			ECONOMIC	
1	CNC	HYPERFORMANCE			ECONOMIC	
2	LASER SOURCE			MAX-FIBER/RAYCUS		
3	SOURCE POWER	1.5 KW	1 KW		1.5 KW	1 KW
4	MAX THICKNES (MILD STEEL) (mm)	16	12		16	12
5	MAX THICKNESS (STAINLESS STEEL) (mm)	8	6		8	6
6	MAX THICKNESS (ALUMINIUM) (mm)	5	3		5	3
7	GAS SUPPLY			O2-N2-Air		
8	CUTTING SPEED FOR 1mm THICKNESS MILD STEEL (m/min)	34~37	24~26		34~37	24~26
9	CUTTING SPEED FOR 1mm THICKNESS STAINLESS STEEL (m/min)	32~35	21~23		32~35	21~23

EXTRA OPTION

protection covers & Table changer



HYPERFORMANCE

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- **5 year CNC warranty. After sales service 15 years**
- **Contact the company's experts**



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